# RIC 2002 Session Number W5 Risk-Informed Regulation Technical Requirements

March 6, 2002

Steven West, Section Chief
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission

Mark Cunningham, Chief Office of Nuclear Regulatory Research U.S. Nuclear Regulatory Commission

### Overview

- Option 2 (10 CFR 50.69)
  - ♦ Objective is to risk-inform scope of SSCs subject to special treatment requirements
- Option 3
  - ♦ Objective is to risk-inform technical requirements
  - ♦ 10 CFR 50.44, Combustible Gas Control
  - ♦ 10 CFR 50.46, ECCS Acceptance Criteria

# 10 CFR 50.69

- Risk-informs scope of SSCs subject to special treatment requirements
- Draft rule language issued
- Guidance document (endorsing NEI document) being developed
- Proposed rule due to Commission July 2002

## 10 CFR 50.44

- Draft rule language issued
- Eliminates design basis accident as source of combustible gas
- Eliminates need for recombiners
- Eliminates need for oxygen and hydrogen monitors to be safety grade
- Proposed rule due to Commission April 2002

### 10 CFR 50.46

- Staff's ongoing technical studies to assess the feasibility of:
  - ♦ Voluntary risk-informed alternative to ECCS reliability requirements in GDC 35
  - ♦ Changes related to ECCS acceptance criteria and ECCS evaluation
  - ♦ Additional changes based on the state-ofknowledge of LOCA frequency of various pipe break sizes -- subject to long-term research study
- Update to SECY-01-133 due to Commission March 2002